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Twenty-Second Winter  
Commencement Exercises

University of Arkansas

Saturday, January 25, 1969



Program

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Degrees Awarded

UNIVERSITY OF ARKANSAS  
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# Commencement Exercises

University of Arkansas

Saturday, January 25, at 2:00 P. M.

1969

## Program

CARILLONIC BELL CONCERT . . . . . Sharon Minden

Processional: Trumpet Voluntary . . . . . Purcell  
PROFESSOR KENNETH R. OSBORNE

The Star Spangled Banner . . . . .  
PROFESSOR KENNETH L. BALLENGER, *Choral Director*

Invocation . . . . .  
MINISTER JOE L. BANKS  
*Church of Christ, Fayetteville, Arkansas*

Commencement Address . . . . .  
MR. C. H. MURPHY, JR., *President*  
*Murphy Oil Corporation, El Dorado, Arkansas*

Conferring of Degrees . . . . .  
DAVID W. MULLINS, *President*  
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D. P. RANEY, *Chairman*  
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Alma Mater . . . . . Tovey  
PROFESSOR KENNETH L. BALLENGER, *Choral Director*

Pure as the dawn on the brow of thy beauty  
Watches thy Soul from the mountains of God  
Over the fates of thy children departed  
Far from the land where their footsteps have trod  
Beacon of hope in thy ways dreary lighted,  
Pride of our hearts that are loyal and true;  
From those who adore unto one who adores us,  
Mother of Mothers, we sing unto you.—By Brodie Payne

Benediction . . . . .  
MINISTER JOE L. BANKS

Recessional: Fugue on Kyrie . . . . . Couperin  
PROFESSOR KENNETH R. OSBORNE



# Degrees in Course

Presented by Robbin C. Anderson, Dean of the College of Arts and Sciences

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B.S., Slippery Rock State Teachers College
- Charlotte Marie Bishop (Mathematics)  
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B.S.E., Southwest Missouri State College
- Tracy Edgar Daugherty (English)  
B.S., Springhill College
- Jill Ann Davis (English)  
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- Billy C. DeWeese (English)  
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- Clara Darlene Williams Doak (English)  
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B.A., Middle Tennessee State University
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B.A., University of Maryland
- Virginia Beth Greenland (Philosophy)  
B.A., University of Arkansas
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M.A., University of Arkansas
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B.S., Purdue University
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B.A., University of Arkansas
- Tommy W. Lewallen (Speech and Dramatic Art)  
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 Philip D. Skelton (English)  
 B.S.E., Arkansas State Teachers College  
 Patricia Gail Smee (Psychology)  
 B.A., Arkansas Polytechnic College

Thomas Richard Stephenson (Psychology)  
 B.A., Arkansas State Teachers College  
 Kaye Southerland Tatum (Speech Pathology)  
 B.A., University of Arkansas  
 Clifton James Taylor (History)  
 B.S., Wisconsin State College  
 Cecil E. Underwood (English)  
 B.S.E.D., Northeastern State College  
 Thomas Haskell Utley (English)  
 B.A., University of Arkansas  
 Frank J. Villani (English)  
 B.A., State University College At Oneonta  
 Ruth Ann Waits (English)  
 B.A., Louisiana Polytechnic Institute  
 W. G. Webster (English)  
 B.A., University of Omaha  
 John Townsend West, III (English)  
 B.A., Arkansas Polytechnic College  
 Philip L. Wilkerson (History)  
 B.A., Harding College  
 Charles G. Williams (History)  
 B.S.E., Arkansas A. & M. College  
 John Howard Wink (English)  
 B.A., University of Southern Mississippi  
 Sharon LaAnn Wisener (Speech and Dramatic Art)  
 B.A., University of Arkansas

## MASTER OF SCIENCE

William Wilson Abbott (Poultry Science)  
 B.S.A., University of Arkansas  
 William David Bacon (Mathematics)  
 B.S., Southern State College  
 Verna Mae Baker (Foods and Nutrition)  
 B.S.H.E., University of Arkansas  
 Everette H. Barman, Jr. (Entomology)  
 B.S., Central State College  
 Jewel Taylor Barr (Animal Science)  
 B.S.A., University of Arkansas  
 Don Clark Barrett (Animal Science)  
 B.S.A., University of Arkansas  
 William Lanny Bateman (Agricultural Economics)  
 B.B.A., Southern State College  
 Charles E. Blackstock (Computer Science)  
 B.A., University of Arkansas  
 Imon Lynn Brown (Entomology)  
 B.S.A., University of Arkansas  
 Mary Ann Eddy Brown (Home Economics)  
 B.S., Harding College  
 Gary L. Burkholder (Zoology)  
 A.B., Northwest Nazarene College  
 Bennie L. Byler (Animal Science)  
 B.S.A., Arkansas State University  
 John Robert Carr (Natural Sciences)  
 B.S., University of Arkansas  
 Samuel Anderson Covington (Botany)  
 B.S., University of Arkansas  
 Preston Lamar Cowger (Instrumental Science)  
 B.S., Arkansas Polytechnic College  
 Kenneth E. Damann, Jr. (Plant Pathology)  
 B.S.E., Eastern Illinois University  
 O. D. Daniel (Mathematics)  
 B.S., Southern State College  
 Richard Edward Dehn (Mathematics)  
 B.S., Memphis State University  
 Ann Dixon (Home Economics)  
 B.S., Ouachita Baptist College  
 Richard Erwin Dobbs (Physiology)  
 B.S., Arkansas State Teachers College  
 Nathan Leland Dodd (Plant Pathology)  
 B.A., Hendrix College  
 Fern Hubbard Dotson (Home Economics)  
 B.S.H.E., University of Arkansas  
 Stanley H. Duke (Botany)  
 B.S., Henderson State Teachers College  
 Stephen Oscar Duke (Botany)  
 B.S., Henderson State Teachers College  
 Ronald Edmond Everett (Entomology)  
 B.S.A., University of Arkansas  
 Marie G. Fair (Natural Sciences)  
 B.S.E., University of Arkansas  
 Albert R. Filippelli (Physics)  
 B.S., University of Arkansas  
 James Thomas Fiser (Instrumental Science)  
 B.S., Little Rock University  
 John Robert Fuller (Natural Sciences)  
 B.S.E., University of Michigan  
 Milton Dale Gallimore (Agronomy—Crops)  
 B.S., Murray State College  
 Elsie LaJune Garner (Home Economics)  
 B.S.E., State College of Arkansas  
 Barbara Jane Greever (Natural Sciences)  
 B.A., Mississippi State College For Women  
 Charles Robert Handford (Geology)  
 B.S., Northeast Louisiana State College  
 Donny Lee Harris (Entomology)  
 B.S., Arkansas Polytechnic College  
 Edward McCray Harris (Chemistry)  
 B.S., Little Rock University  
 Harold Henry Hartman (Mathematics)  
 B.S., University of Arkansas  
 Eddie Lee Higgins (Home Economics)  
 B.S., Arkansas A. M. & N. College



- Bettye Jean Hill (Home Economics)  
B.S., Arkansas A. M. & N. College
- Rodney Leon Holloway (Entomology)  
B.S., Ouachita Baptist University
- Virgel Edwin Horn, Jr. (Instrumental Sciences)  
B.S., Stephen F. Austin State College
- Joseph M. Hudson (Animal Science)  
B.S.A., University of Arkansas
- Sada Lewis Hutcheson (Microbiology)  
B.S., University of Arkansas
- Richard Earnest Ivy (Poultry Science)  
B.S., University of Arkansas
- Peggy Lee Jeter (Natural Sciences)  
B.A., Hendrix College
- Linda Joan Case Kitchens (Home Economics)  
B.S.E., Henderson State Teachers College
- F. Sanford Ladage (Natural Sciences)  
B.A., University of Arkansas
- Robert O. Lawrence, Jr. (Animal Nutrition)  
B.S.A., University of Arkansas
- Bobby Ray Layton (Chemistry)  
B.S., Arkansas State College
- Georgia Lynn Martin (Natural Sciences)  
B.A., Arkansas College
- Ralph Gene Martin (Agricultural Economics)  
B.S.A., University of Arkansas
- Rebecca Sue Massey (Bacteriology)  
B.A., Hendrix College
- Edward Paul Mason (Entomology)  
B.S.A., University of Arkansas
- Fanny Gene McCarter (Agricultural Economics)  
B.S., Oklahoma A. & M. College
- Virginia L. McMillan (Microbiology)  
B.S., Lamar State College of Technology
- Loretta Graves McNatt (Biochemistry)  
B.S., Southern State College
- George B. Moreledge, III (Natural Sciences)  
B.A., Westminster College
- Robert O. Nason (Computer Science)  
B.S., Henderson State Teachers College
- Sandra Gail Wheat Orsini (Bacteriology)  
B.A., University of Arkansas
- James F. Outlaw, Jr. (Chemistry)  
B.S., Texas A. & I. College
- Wilbur Blackstone Owen, Jr. (Zoology)  
B.A., Arkansas State Teachers College
- John Terry Peel (Natural Sciences)  
B.S.E., University of Arkansas
- Alan Franklin Posey (Entomology)  
B.S.E., Arkansas State College
- Vonnie Ronald Prentice (Zoology)  
B.S.E., Northeastern State College
- Birdie Lane Wright Rader (Zoology)  
B.S.E., University of Arkansas
- Luther H. Roberts, Jr. (Entomology)  
B.S.A., University of Arkansas
- Douglas E. Rucker (Mathematics)  
B.S., Arkansas Polytechnic College
- Loy Dale Rowbotham (Natural Sciences)  
B.S., College of the Ozarks
- Ralph Sheets (Chemistry)  
B.S., Henderson State Teachers College
- Charles K. Showalter (Radiation Sciences)  
B.S., Arkansas State Teachers College
- Walter W. Sisson (Natural Sciences)  
B.S.A., University of Arkansas
- Buster Lewis Slaten (Chemistry)  
B.S., Arkansas A. & M. College
- Freddy Allan Smith (Animal Science)  
B.S., Oklahoma State University
- Harold Ray Smith (Agronomy-Crops)  
B.S.A., University of Arkansas
- David D. Snellings, Jr. (Radiation Science)  
B.S., Arkansas Polytechnic College
- George Sourlis (Physics)  
B.S., Purdue University
- James Frederic Sprouse (Instrumental Sciences)  
B.A., Kansas State
- J. W. Stewart (Entomology)  
B.A., Arkansas Polytechnic College
- David L. Stiers (Botany)  
B.S., Ouachita Baptist College
- Clyde Arthur Stuart, Jr. (Agricultural Economics)  
B.S.A., Arkansas State College
- Michael John Sweeney (Poultry Science)  
B.S.A., University of Arkansas
- Dale Lloyd Swindle, Jr. (Chemistry)  
B.S., Arkansas Polytechnic College
- Mary Anne Swindle (Chemistry)  
B.S., St. Mary Dominican College
- John Randolph Talburt (Mathematics)  
B.S., Arkansas State University
- Leatha Taylor (Home Economics)  
B.S., Northeastern State College
- Yao-Chung Teng (Agronomy-Crops)  
B.S., Taiwan Provincial Chung Hsing University
- William H. Tennon (Natural Sciences)  
B.A., Howard Payne College
- Milton Ray Tucker (Agronomy-Soils)  
B.S., Northeast Louisiana State College
- William Robert Vandivere (Agronomy-Crops)  
B.S.A., University of Arkansas
- Ella Mae Walker (Home Economics)  
B.S., Arkansas A. M. & N. College
- Linda Shultz Wallace (Mathematics)  
B.A., Arkansas College
- Thomas E. Ward (Chemistry)  
B.S., Northeastern State University
- Jerry Edward Webb (Poultry Science)  
B.S.A., University of Arkansas
- Joe Darell Widick (Agronomy-Crops)  
B.S., University of Tennessee
- Larry E. Withers (Natural Sciences)  
B.S.E., University of Arkansas
- John Turnage Youree (Botany)  
B.S.E., Henderson State Teachers College

## MASTER OF BUSINESS ADMINISTRATION

Sunthorn Arunanondchai  
B.B.A., Southern State College

Charmayne B. Kimball Bondurant  
B.S.B.A., University of Arkansas

Bob Carmichael  
B.B.A., Eastern New Mexico University

Frederick R. Chandler, Jr.  
B.S.B.A., University of Arkansas



Michael W. Clark  
B.S.B.A., University of Arkansas  
Dale Gene Cosgrove  
B.S.B.A., University of Arkansas  
John Charles Cox  
B.S.E.E., University of Arkansas  
William Willis Deloney  
B.A., Lamar State College of Technology  
Max William Dilley  
B.A., Upper Iowa College  
Charles H. Elvers  
B.S., Dana College  
Thomas Arthur Feilke  
B.S.B.A., University of Arkansas  
John Ray Graham  
B.S.B.A., Kansas State University  
James Monroe Gray  
B.S., Dana College  
Joel Franklin Hawkins  
B.B.A., Arkansas State Teachers College  
John Luther Heflin, Jr.  
B.A., Ouachita Baptist University  
Robert Kinley Heggland  
B.S., Georgia Institute of Technology  
John Richard Jackson, Jr.  
B.S.B.A., University of Arkansas  
B.A., University of Arkansas  
John Stephen Jeter  
B.A., Harding College  
James L. Jetton  
B.S.B.A., University of Arkansas  
William Thomas Karrow  
B.A., Wartburg College  
Richard R. Mackowiak  
B.S., Christian Brothers College  
John G. Marino  
B.S.B.A., University of Arkansas  
Joe C. McDonald, III  
B.S., Henderson State Teachers College  
Linda C. Mitchusson  
B.S., East Central State College  
Gary Chester Morris  
B.S., Southwest Missouri State College  
Kenneth C. Packard  
B.S.B.A., Kansas State College of Pittsburg  
Stephen Edward Plamen  
B.S., Bradley University

Terry Van Rankin  
B.S., University of Mississippi  
James William Rogers  
B.S.B.A., University of Arkansas  
John White Shannon  
B.S.B.A., University of Arkansas  
Robert Larkan Snider  
B.A., Ouachita University  
Jimmy Darrell Southerland  
B.S., Southwest Missouri State College  
Jeanne Speakman  
B.S.B.A., University of Arkansas  
William Henry Stewart, Jr.  
B.S., Southwest Missouri State College  
Jack Terrance Stovall  
B.S.B.A., University of Omaha  
James Adams Street  
B.S., Pennsylvania State University  
John E. Street, Jr.  
B.S., Arkansas Polytechnic College  
James W. Stuart  
B.B.A., Southern State College  
Michael Marsh Taylor  
B.S., Austin Peay State College  
Carolyn Louise Thompson  
B.B.A., Arkansas State Teachers College  
Jack L. Thompson  
B.S.B.A., University of Arkansas  
John William Tiede  
B.S., Southwest Missouri State College  
Donald R. Vines  
B.S.B.A., University of Arkansas  
Robert Joseph Werner  
B.B.A., University of Notre Dame  
William Franklin Whitaker, Jr.  
B.S., Austin Peay State College  
Gary Edward Wilson  
B.S., Southwest Missouri State College  
Glenn Astor Wilson, Jr.  
B.S., University of Southwestern Louisiana  
James Henry Wood  
B.B.A., Midwestern University  
Michael Barnett Wright  
B.A., Little Rock University  
Richard H. Wyatt  
B.S.B.A., University of Arkansas

## MASTER OF EDUCATION

Faye Abernathy (Secondary Education)  
B.S., Arkansas Polytechnic College  
J. Benton Allen, Sr. (Educational Administration)  
B.A., Harding College  
Joe F. Barlow (Educational Administration)  
B.S.E., Arkansas A. & M. College  
Bobby Ray Barrett (Educational Administration)  
B.S.E., Henderson State Teachers College  
Charles H. Berry (Physical Education)  
B.S.E., Arkansas Polytechnic College  
Barbara Kay Boland (Counselor Education)  
B.S., Oklahoma State University  
Paul Dean Bond (Vocational Education)  
B.S.A., University of Arkansas  
Frances L. Brookes (Secondary Education)  
A.B., Henderson State Teachers College  
Carole Jean Brown (Counselor Education)  
B.S.B.A., University of Arkansas  
Robert Harold Brown (Recreation)  
B.S.E., University of Arkansas  
Sibyl Brockman Brown (Secondary Education)  
B.S., Arkansas A. & M. College  
Geraldine Buckingham (Secondary Education)  
B.S., Arkansas A. M. & N. College  
Wilma Jean Cherry (Counselor Education)  
B.S., University of Arkansas  
Doris Geren Collins (Elementary Education)  
B.S.E., University of Arkansas  
Angelo George Coppola, Sr. (Secondary Education)  
B.S.E., Arkansas State College  
Irmgard Koerber Corbin (Elementary Education)  
B.S.E., University of Arkansas

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Frances Ann Coulter (Secondary Education)  
 B.S.E., Ouachita Baptist University  
 Mercedier Turner Cunningham (Counselor Education)  
 B.A., Philander Smith College  
 Mayburn L. Davidson (Educational Administration)  
 B.S.E., Southeast Missouri State College  
 Hazel C. Dickey (Secondary Education)  
 B.S.E., Arkansas State College  
 Katy Pat Dorsey (Elementary Education)  
 B.S.E., Arkansas State College  
 John Clifford Dwyer (Counselor Education)  
 B.A., University of Arkansas  
 Bonnie Jaunice Davis Dyer (Counselor Education)  
 B.S.E., Henderson State Teachers College  
 John Alvin Eason (Counselor Education)  
 B.S., Arkansas A. M. & N. College  
 Johnnie J. Ewing (Educational Administration)  
 B.S.E., Henderson State Teachers College  
 Howard M. Faulkner (Counselor Education)  
 B.A., Arkansas Polytechnic College  
 Hazel Comstock Fears (Elementary Education)  
 B.S.E., Arkansas State Teachers College  
 Aline Strang Fuller (Elementary Education)  
 B.S.E., University of Arkansas  
 Shirley Nance Fuqua (Secondary Education)  
 B.S.E., Southeast Missouri State College  
 Aggie P. Gaddy (Counselor Education)  
 B.S.E., Arkansas A. M. & N. College  
 John F. Gardner, III (Music Education)  
 B.M., Oklahoma Baptist College  
 Charles Wayne Garman (Secondary Education)  
 B.S.E., University of Arkansas  
 B.S.E.E., University of Arkansas  
 Patricia A. Gates (Elementary Education)  
 B.S.E., Arkansas A. & M. College  
 Sarah Annette Gathright (Physical Education)  
 B.S.E., University of Arkansas  
 Edward Eugene Gible (Music Education)  
 B.M.E., University of Tulsa  
 De Lois Gibson (Counselor Education)  
 B.A., Philander Smith College  
 Frank Orlin Gilbert (Secondary Education)  
 B.S., Iowa State University  
 Benny L. Gooden (Educational Administration)  
 B.A., Harding College  
 Yener Gulmez (Secondary Education)  
 B.S.E., University of Arkansas  
 Roy Gunter (Secondary Education)  
 B.A., University of Mississippi  
 Shirley M. Haskew (Elementary Education)  
 B.S.E., Arkansas A. & M. College  
 Ruth M. Haymon (Elementary Education)  
 B.S.H.E., Arkansas A. M. & N. College  
 Thomas Phillip Holton (Physical Education)  
 B.A., Rockhurst College  
 Mary Beth Hughes (Elementary Education)  
 B.S., Arkansas Polytechnic College  
 Sarah Frances Hundley (Elementary Education)  
 B.S.E., Arkansas A. & M. College  
 Ralph Wayne Ingram (Secondary Education)  
 B.S.E., University of Arkansas  
 Sarah Ann Irby (Music Education)  
 B.M.E., Arkansas State Teachers College  
 Ava Fuller Jackson (Elementary Education)  
 B.S., Arkansas A. M. & N. College  
 Barbara Frances Jackson (Elementary Education)  
 B.S., Grambling College  
 Janice E. James (Secondary Education)  
 B.A., University of Arkansas  
 Ellena Kay Johnson (Elementary Education)  
 B.S.E., Central State College  
 Joyce Jean Johnson (Elementary Education)  
 B.S., Arkansas State Teachers College  
 Lamar Jones (Educational Administration)  
 B.A., Arkansas A. M. & N. College  
 Mabel O. Jordan (Vocational Education)  
 B.S., John Brown University  
 Ethel Marie Zukowski Kilgore (Secondary Education)  
 B.S.E., University of Arkansas  
 Raymond Ray Kinslow (Educational Administration)  
 B.A., Bethel College  
 Glen Galen Langston (Educational Administration)  
 B.S.E., University of Arkansas  
 Franklin L. Lewis (Educational Administration)  
 B.S.E., Arkansas State Teachers College  
 Velma Martin (Vocational Education)  
 B.S.E., Arkansas State Teachers College  
 Oneida Mathews (Secondary Education)  
 B.A., Mary Hardin College  
 Dorothy M. Matthews (Elementary Education)  
 B.A., Little Rock University  
 Judith Thomason McCord (Elementary Education)  
 A.B., Louisiana Grange College  
 Orlin R. McLean (Counselor Education)  
 B.A., Union College  
 E. Elizabeth McMahan (Vocational Education)  
 B.S.E., University of Arkansas  
 Virginia Brooks Minor (Elementary Education)  
 B.S., Oklahoma State College  
 Harris Frank Mitchell, Jr. (Educational Administration)  
 B.S., Southern State College  
 Annie Clyde Moore (Elementary Education)  
 B.S.E., Arkansas A. & M. College  
 Doyle W. Morgan (Counselor Education)  
 B.S.A., University of Arkansas  
 Willard Bill Neal (Physical Education)  
 B.S.E., Ouachita Baptist University  
 Janet Dixon Newton (Counselor Education)  
 B.S.E., Arkansas State Teachers College

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Charles W. Oliver (Education  
Administration)

B.S., Sul Ross State College

Judith Kay Orintas (Elementary  
Education)

B.S.E., University of Arkansas

William A. Ortego, Jr. (Elementary  
Education)

B.A., Louisiana College

David Eugene Pamplin (Educational  
Administration)

B.S.E., Arkansas A. & M. College

John Keith Parrish (Physical Education)

B.S., Arkansas Polytechnic College

Harlon Brodie Patterson (Secondary  
Education)

B.S., Southern State College

Beatrice Blackwell Payne (Secondary  
Education)

B.S., Arkansas Polytechnic College

Janis Ann Perrin (Elementary Education)

B.A., Little Rock University

Donna Cochran Peterson (Elementary  
Education)

B.S.E., Kansas State College

H. Phil Phillips, Jr. (Physical Education)

B.S., Arkansas Polytechnic College

Ernestine Preston (Elementary Education)

B.S., Arkansas A. M. & N. College

Paul Scott Richardson (Education  
Administration)

B.S.E., University of Arkansas

Janet Carolyn Ridgway (Elementary  
Education)

B.S., Kansas State Teachers College

Ralph D. Rogers (Educational  
Administration)

B.S.A., University of Arkansas

John Douglas Rotert (Secondary  
Education)

B.S.E., University of Arkansas

Mary Ann Sisco Rush (Secondary  
Education)

B.S.E., John Brown University

Donald C. Shannon (Physical Education)

B.A., Sacramento State College

Margaret Charlene Shehane (Counselor  
Education)

B.S.E., Henderson State Teachers College

Waynette R. Shockey (Physical Education)

B.S.E., University of Arkansas

Delores Annette Smith (Counselor  
Education)

B.A., Little Rock University

Victor David Sosebee (Educational  
Administration)

B.A., College of the Ozarks

James M. Starling, Jr. (Secondary  
Education)

B.S.E., University of Arkansas

Betty Leverette Stewart (Elementary  
Education)

B.S.E., University of Arkansas

Jackie J. Sutterfield (Educational  
Administration)

B.S., Arkansas Polytechnic College

JoeAnn V. R. Sutton (Elementary  
Education)

B.A., Philander Smith College

Daisy Ann Tatum (Physical Education)

B.S., Arkansas A. M. & N. College

Ronald L. Thomas (Counselor Education)

B.A., University of Arkansas

Carolyn J. Thorn (Elementary Education)

B.S.E., University of Arkansas

Margaret Ellen Thurman (Secondary  
Education)

B.S.E., University of Arkansas

Ronald W. Toothaker (Physical Education)

B.S., Arkansas Polytechnic College

Bobby Jack Tucker (Educational  
Administration)

B.S.A., University of Arkansas

Virginia Kay Turner (Counselor  
Education)

B.A., University of Arkansas

Donald Lindsey Turney (Educational  
Administration)

B.S.E., Arkansas A. & M. College

Benny C. Watson (Counselor Education)

B.S.E., Arkansas A. & M. College

Dean Wilburn (Educational  
Administration)

B.S., Arkansas Polytechnic College

Paul L. Wilcox (Vocational Education)

B.S., New Mexico State University

Bonita Lynne Williams (Vocational  
Education)

B.S., Ouachita Baptist University

Sally Rand Williams (Vocational  
Education)

B.S.B.A., University of Arkansas

Rose Marie Willis (Vocational Education)

B.S.H.E., University of Arkansas

Marilyn Tabor Windle (Secondary  
Education)

B.A., University of Arkansas

## MASTER OF SCIENCE IN CHEMICAL ENGINEERING

Kutumbarao Tummala (Chemical  
Engineering)

B.S., Andhra University

## MASTER OF SCIENCE IN CIVIL ENGINEERING

Gerald Wayne Bobo (Civil Engineering)

B.S.C.E., University of Arkansas

Robert David Burson (Civil Engineering)

B.S.C.E., University of Arkansas

Eugene Debs Erwin (Civil Engineering)

B.S.C.E., University of Arkansas

Larry David Gaddis (Civil Engineering)

B.S.C.E., University of Arkansas

Robert T. Harriell, Jr. (Civil Engineering)

B.S.C.E., University of Arkansas

Joseph Edison Keithley, Jr. (Civil  
Engineering)

B.S.C.E., University of Arkansas

John W. Stiles (Civil Engineering)

B.S.C.E., University of Arkansas

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## MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

James Michael Connell (Electrical Engineering)

B.S.E.E., University of Arkansas

Bulent F. Guleryuz (Electrical Engineering)

B.S.E.E., Istanbul Teknik Okulu

Charles Edward Moore, Jr. (Electrical Engineering)

B.S.E.E., University of Arkansas

Elvie E. Mooty, Jr. (Electrical Engineering)

B.S.M.E., University of Arkansas

B.S.E.E., University of Arkansas

Darryl Ray Polk (Electrical Engineering)

B.S.E.E., University of Arkansas

## MASTER OF SCIENCE IN ENGINEERING

Clell A. Callaway (Engineering)

B.S.I.E., University of Arkansas

James Moore Eldridge (Engineering)

B.S.I.M., University of Arkansas

## MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

John Wesley Barnes (Industrial Engineering)

B.S.E., University of Texas

Larry G. Brown (Industrial Engineering)

B.S.E.E., University of Arkansas

Rodney Gilbreath (Industrial Engineering)

B.S.I.E., University of Arkansas

Dickie Don Hairston (Industrial Engineering)

B.S.I.E., University of Arkansas

James Ray Sellick (Industrial Engineering)

B.S.I.E., University of Arkansas

Donald R. Smith (Industrial Engineering)

B.S.I.E., University of Arkansas

Dwarkadas Kanji Somaiya (Industrial Engineering)

B.ENG., Gujarat University

## MASTER OF SCIENCE IN MECHANICAL ENGINEERING

Stephen C. Pile (Mechanical Engineering)

B.S.M.E., University of Arkansas

## MASTER OF MUSIC

Penny Garrett (Voice)

B.M., Indiana University

Valda B. Pancoast (Music)

B.M., University of Missouri

## MASTER OF FINE ARTS

Dale Olafur Amundson (Art)

B.F.A., University of Manitoba

George W. Potter (Art)

B.A., Central College

M.A., University of Iowa

## DOCTOR OF EDUCATION

Billy Joe Arrington (Physical Education)

B.A., Ouachita Baptist

M.Ed., Midwestern University

Dissertation: "The Effects of Regular Short Periods of Exercise with the Exer-Genie Exerciser on the Cardiovascular Condition of Selected Individuals."

Wesley Dean Bair (Physical Education)

B.S.E., Illinois State Normal University

M.S.E., Illinois State Normal University

Dissertation: "The Status on Testing in Physical Education in the Large High Schools of the Chicago Suburban Area."

Talmage Earl Banister (Vocational Education)

B.S., Southeastern Louisiana College

M.Ed., University of Arkansas

Dissertation: "Evaluation of Equipment, Facilities, and Instructional Resources in Distributive Education Programs in Arkansas."

Charles Coit Boardman (Secondary Education)

B.S., College of William and Mary

M.Ed., Rutgers University

Dissertation: "A Study of the Audience for an Open-Broadcast Instructional Television Program in Economics."

Richard A. Brooker (Educational Administration)

B.S.E., Kansas State College of Pittsburgh

M.S., Kansas State Teachers College

Dissertation: "Comparative Analysis of the Results of the College Characteristics Index Administered at a Single University."

M. G. Cameron (Educational Administration)

B.S.E., Southwest Missouri State College

M.S., Kansas State College of Pittsburgh

Dissertation: "Academic Service Charges to Students in the Arkansas Public Secondary Schools."



**Leslie Verl Carnine (Educational Administration)**

B.A., Buena Vista College  
M.Ed., Central Missouri State College  
Dissertation: "The Federal Aid Coordinator in Arkansas Public Schools 1967-68."

**Bob L. Chalender (Educational Administration)**

B.S., Kansas State University  
M.S., Wichita State University  
Dissertation: "An Appraisal of the Equalization, Equity, and Tax Broadening Aspects of the 1965 Kansas Foundations Finance Act as Amended."

**Oscar Drew Christie (Higher Education)**

B.A., New Mexico State University  
M.A., San Diego State College  
Dissertation: "The Relationship Between Types of Housing Available at Kansas State Teachers College and Selected Academic and Behavioral Factors."

**Bobby L. Coker (Educational Administration)**

B.A., Harding College  
B.S., Arkansas State College  
Dissertation: "Documentary Appraisal of Negotiated Grievance Procedures for Teachers."

**Paul R. Fair (Educational Administration)**

B.S.E., University of Arkansas  
M.S., University of Arkansas  
Dissertation: "Comparative Effects of Using Initial Teaching Alphabet and Traditional Orthography Mediums in Initial Reading Instruction."

**Shirley E. Stauber Friend (Higher Education)**

B.S.H.E., University of Arkansas  
Dissertation: "Relationship Between Degree of Value Attributed to Clothing and the Self-Concept of Physically Handicapped Students."

**William Frederick Grady (Educational Administration)**

B.A., Harding College  
M.Ed., University of Arkansas  
Dissertation: "The Development of a Plan to Prepare Educational Media for the Public Schools of Arkansas."

**Carol Ham (Elementary Education)**

B.S., Southern State College  
M.Ed., University of Arkansas  
Dissertation: "An Appraisal of Administration Policies and Practices Utilized in the Administration of Selected Aspects of Off-Campus Student Teaching Programs in Arkansas."

**Robert Lynn Honea (Secondary Education)**

B.B.A., North Texas State College  
M.B.A., North Texas State College  
Dissertation: "A Study of the Change in Learning Potential Induced by Low-Level D. C. Brain Polarization of Normal Adults."

**Delton Lee Johnson (Industrial Education)**

B.S.E., Kansas State Teachers College  
M.S., Kansas State Teachers College  
Dissertation: "State Handbooks for Industrial Arts: A Comparison of Content with Judgments of Leaders and Examination of Trends Reflected in these Publications."

**Herbert Hall Lawrence (Educational Administration)**

B.A., Harding College  
M.A., George Peabody College  
Dissertation: "The Development of a Model Media Course for the Professional Preparation of Elementary and Secondary Teachers in Arkansas."

**Richard Anthony Musemeche (Educational Administration)**

B.B.S., Louisiana State University  
M.E., Louisiana State University  
Dissertation: "A Profile of the School Superintendent in Louisiana 1968."

**Jerry Dale Perrin (Educational Administration)**

B.A., Harding College  
M.Ed., University of Arkansas  
Dissertation: "A Statistical and Time Change Analysis of Achievement Differences of Children in a Nongraded and a Graded Program in Selected Schools in the Little Rock Public Schools."

**Sherman Baxter Peterson (Educational Administration)**

B.A., Hendrix College  
M.Ed., University of Arkansas  
Dissertation: "The Purchasing Practices of Large Schools in Arkansas with Comparison on Selected Items with Small Schools"

**Don Runyan Roberts (Educational Administration)**

B.A., Henderson State Teachers College  
M.S.E., Henderson State Teachers College  
Dissertation: "A Study to Determine the Need of a Comprehensive Community Junior College in Pulaski County, Arkansas."

**Henry David Scogin (Physical Education)**

B.S.E., Arkansas A. & M. College  
M.Ed., University of Arkansas  
Dissertation: "A Comparison of Swimming Performances Following Selected Intensities of Warm-Up with Varied Rest Intervals."

**James Neal Shannahan (Educational Administration)**

A.B., Drury College  
M.Ed., Drury College  
Dissertation: "The Feasibility and the Desirability of a State Property Insurance Fund for the Arkansas Public Schools."

**Charles F. Ray Sours (Industrial Education)**

B.S., Kansas State College  
M.A., Kansas State College  
Dissertation: "The Probability of Enrollment and Success of High School Seniors in an Industrial and Technical Teacher Education Program in the State of Arkansas."

**James Earl Sullivan (Educational Administration)**

B.S., Centenary College  
M.E., Northwestern College of Louisiana  
Dissertation: "The Academic Success of Transfers to the Upper-Division at the University of Arkansas."

**Maxine G. Trimble (Higher Education)**

B.S.E., Kansas State University  
M.S., Kansas State University  
Dissertation: "Measurement of Perceived Campus Press on Three Student Groups at the Kansas State Teachers College of Emporia."

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## DOCTOR OF PHILOSOPHY

### Lewis Neal Amis (Economics)

B.A., George Peabody College  
M.A., George Peabody College  
Dissertation: "A Study of the Longrun Determinants of Gasoline Price Levels: and Explanatory and Prediction Model."

### James Bryan Barksdale, Jr. (Mathematics)

B.A., University of Arkansas  
M.S., University of Arkansas  
Dissertation: "Some Investigations Concerning Analysis in Normed Vector Spaces."

### James Owen Baugh (Chemistry)

B.A., Hendrix College  
M.S., University of Arkansas  
Dissertation: "A Study of Fission Products and Single Fallout Particles in the Atmosphere."

### Carroll F. Blakemore (Mathematics)

B.S., University of Arkansas  
M.S., University of Arkansas  
Dissertation: "On P-Coherent Spaces."

### Russell Gene Brasher (Mathematics)

B.A., Hendrix College  
M.S., University of Arkansas  
Dissertation: "The Orientable Double Covering of a Nonorientable Manifold, and Related Spaces."

### Chester Eugene Canada (Physics)

B.S., University of Louisville  
M.S., University of Louisville  
Dissertation: "Measurements of Thomson Coefficients."

### Robert C. Culpepper (Business Administration)

B.S., Arkansas A. & M. College  
M.B.A., University of Arkansas  
Dissertation: "A Study of the Effect of Certain Alternative Accounting Methods on Regulatory Decisions in the Gas Utility Industry."

### Donald Wayne Davis (Zoology)

B.A., University of Missouri  
M.A., University of Saskatchewan  
Dissertation: "The Behavior and Population Dynamics of the Red Squirrel (*Tamiasciurus Hudsonicus*) in Saskatchewan."

### Edward Daniel Dill (Chemistry)

B.S., Southwestern State College  
Dissertation: "The Crystal and Molecular Structures of 2-Aminopyridinium (I) Oxotrichloroselenate and Tetraphosphorous-Trisulfide Molybdenum Pentacarbonyl."

### Herbert Lee Fine (Psychology)

B.A., Washington University  
M.A., University of Arkansas  
Dissertation: "Stimulus Factors in Exploratory Behavior."

### Patricia Ingram Garland (Business Administration)

B.S., Louisiana Polytechnic Institute  
M.B.A., University of Arkansas  
Dissertation: "The Changing Social and Economic Statics of the Negro Market."

### Robert William Gruebel (Physics)

B.S., University of Arkansas  
M.S., University of Arkansas  
Dissertation: "Determination by X-Ray Diffraction of Electronic and Molecular Distributions in Liquids Composed of Substituted Ethylene Molecules."

### Jerome McCain Hatcher (Engineering)

B.S., Louisiana Polytechnic Institute  
M.S.I.E., University of Arkansas  
Dissertation: "A Study of the Effect of In-Process Storage Capacity on the Output Rate of Production Lines."

### Darrell Keith Hutchins (Physics)

B.S., Northeastern State College  
M.S., University of Arkansas  
Dissertation: "Pulse Nuclear Magnetic Resonance in Cesium Fluoride."

### Donald D. Killion (Crops)

B.S., University of Missouri  
M.S., University of Missouri  
Dissertation: "Responses of Cotton and Soybean Mitochondria to Inhibitors and Phytotoxins."

### Donald Lewis Kyle (Business Administration)

B.B.A., Southern State College  
M.B.A., University of Arkansas  
Dissertation: "An Inquiry into the Propriety of Using Long-Term Leasing in a Selected Retail Chain."

### William W. Manders (Biochemistry)

B.S., University of New Hampshire  
Dissertation: "Studies on Lysine-Sensitive Aspartokinase."

### John Elmslie Martin (Chemistry)

B.A., DePauw University  
Dissertation: "Photochemistry of Some Square Planar Complexes."

### Morris Hitt Middleton (Psychology)

B.S., Memphis State University  
M.S., University of Arkansas  
Dissertation: "Semantic Differential Ratings as a Function of Three Context Variables."

### Murl Wayne Parker (Engineering)

B.S.I.E., University of Arkansas  
M.S.I.E., University of Arkansas  
Dissertation: "The Analysis of Nonserial Multistage Forms."

### Don T. Phillips (Engineering)

B.S.E.E., Lamar State College of Technology  
M.S.I.E., University of Arkansas  
Dissertation: "A Markovian Analysis of the Conveyor-Serviced Ordered Entry Queueing System with Multiple Servers and Multiple Queues."

### Louis David Ponthieu (Business Administration)

B.B.A., North Texas State University  
M.B.A., North Texas State University  
Dissertation: "Administrative Factors Affecting the Results Obtained from Error-Free Performance (Zero Defects) Motivation Programs in Selected Business Organizations."

### Wayne Roger Price (Psychology)

B.S., College of William and Mary  
M.A., University of Arkansas  
Dissertation: "Aversive Behavioral Modification with Extended Inter-Stimulus Intervals."

### Gayle D. Riggs (Economics)

A.B., Drury College  
M.B.A., University of Arkansas  
Dissertation: "Interfiber Competition and Cotton Consumption."

### Herman Prestridge Sandford (English)

A.B., Baylor University  
M.A., Baylor University  
Dissertation: "The Moral Vision of George Washington Cable."

### Delbert Craig Shew (Chemistry)

A.B., Hanover College  
M.A., University of Indiana  
Dissertation: I. Total Synthesis of dl-Carnosic Acid Dimethyl Ether. II. Alternate Approaches to the Introduction of 11-Oxygen Substituents: Total Synthesis of dl-Carnosol Dimethyl Ether.

### David R. Simmons (Mathematics)

B.S., Centenary College  
M.S., University of Arkansas  
Dissertation: "The Category of Relations."

### David Allen Sisemore (Psychology)

B.A., University of Arkansas  
M.A., University of Arkansas  
Dissertation: "Constant and Varied Stimulation as Influences on Discrimination Learning and Alternation Behavior."



Thomas Joseph Slaga (Physiology)

B.A., Steubenville College

Dissertation: "Effects of Prolonged Acth Administration on Adrenal Steroid Biosynthesis."

Virgil Farnsworth Stone (Business Administration)

B.B.A., Midwestern University

M.Ed., Midwestern University

M.B.A., North Texas University

Dissertation: "The Contribution of the Controller Division in the Pricing Programs of Selected Frozen Foods Processors."

William Robert Taylor (Engineering)

B.S.E.E., Oklahoma State University

M.S.I.E., University of Arkansas

Dissertation: "Definition of Some Classes of Problems in Serial and Nonserial Multistage Decision Processes."

B. Travis Tunnell, Jr. (Psychology)

B.A., Little Rock University

M.A., University of Arkansas

Dissertation: "The Scaling of Tactile Extent and Auditory Duration by Blind and Sighted Subjects."

Bi Cheng Wang (Chemistry)

B.S., Cheng Kung University

Dissertation: "A Study of the Stereochemistry of Selenium: X-Ray Investigations on the Crystal Structures of 2,2'-Dipyridylum (II) Oxotetrachloroselenate (IV) and 2,2' — Dipyridylum (I) Dioxochloroselenate (IV)."

Lloyd Joseph Watson (Bacteriology)

B.S., Wheaton College

M.S., North Illinois University

M.A., Southern Illinois University

Dissertation: "Serum Proteins of Normal and Immune Fishes of the Family Cyprinidae."

Charles Richard Williams (Mathematics)

B.A., Oklahoma University

M.S., Oklahoma State University

Dissertation: "Natural Equivalences and Lifting Properties in Categories."

Wilton Leland Wilson (Marketing)

B.B.A., College of Arts & Industry

M.S., College of Arts & Industry

Dissertation: "The Marketing Concept Applied to Packaging Decisions in the White Bread Industry in South Central Texas."

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